

California State Parks



Adapting to Climate Change



Climate Change and Four Adaptation Challenges

California State Park System

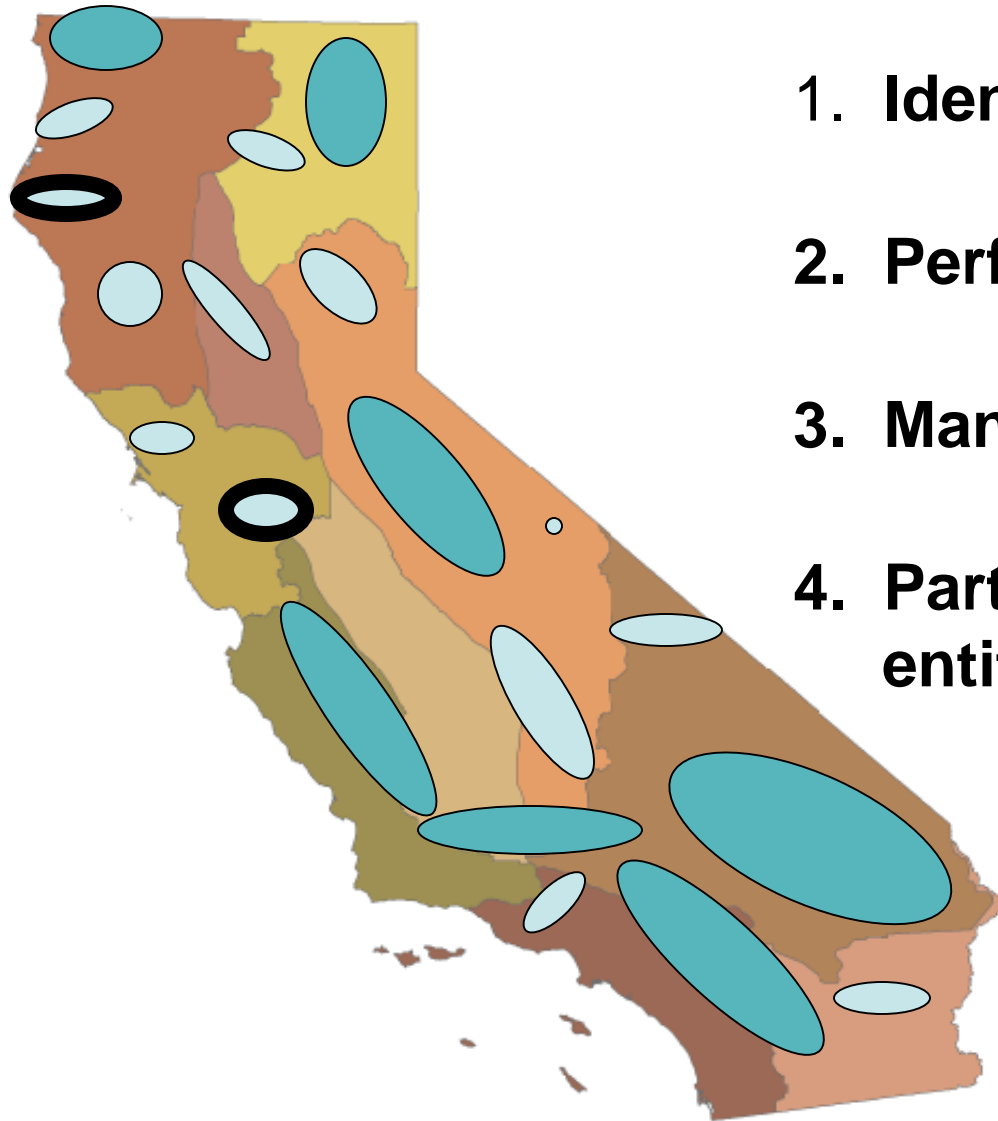
- Parks – 280
- 94% habitat or 1.3 million acres
- Key large parks - 45
- Vegetation types – 65%
- 85 million users a year



Challenges

1. Protect Biological Diversity
2. Wildland Fire
3. Beach and Coastal Impacts
4. Central Valley Water Recreation

Challenge 1: Biological Diversity, Landscape Reserves, and Resiliency

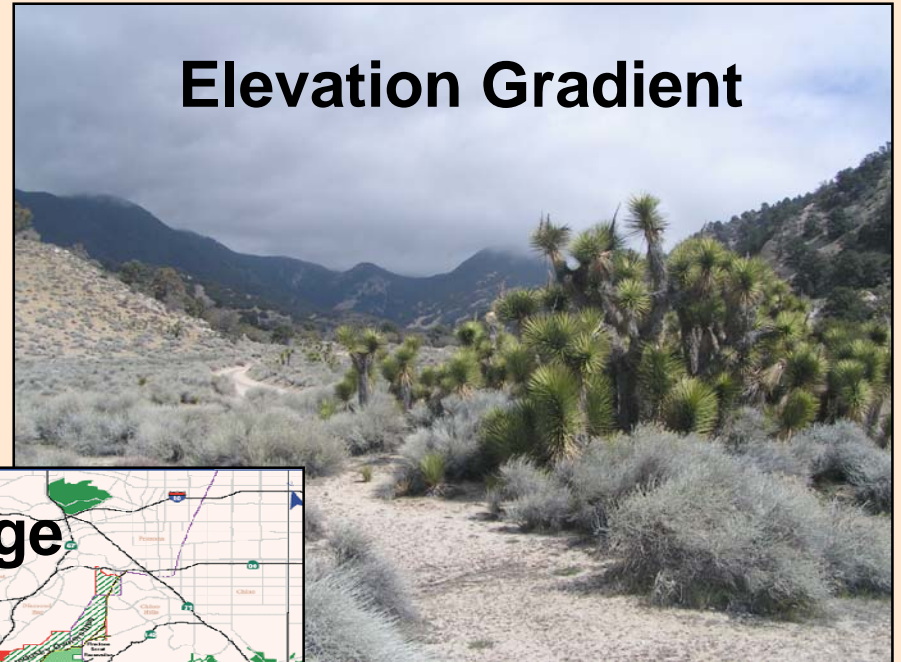


- 1. Identify & Prioritize**
- 2. Perfect Reserve Area**
- 3. Managing Core Areas**
- 4. Partners: Land managing entities and land trusts**

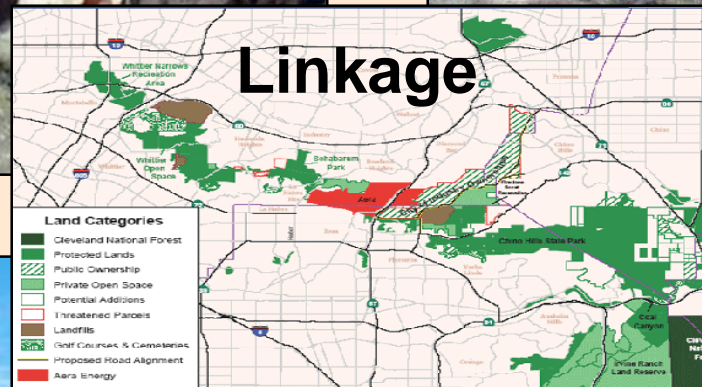
Size



Elevation Gradient



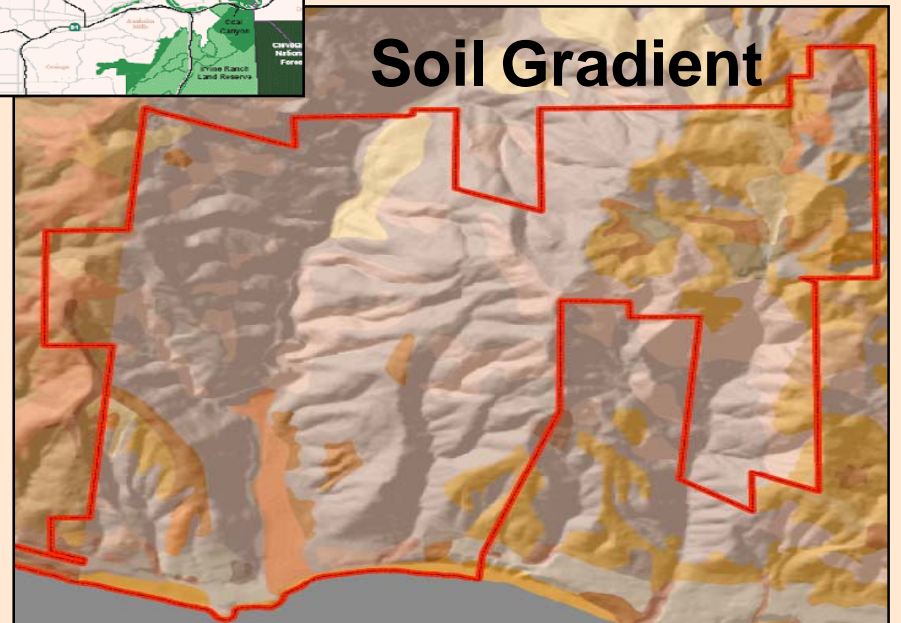
Linkage



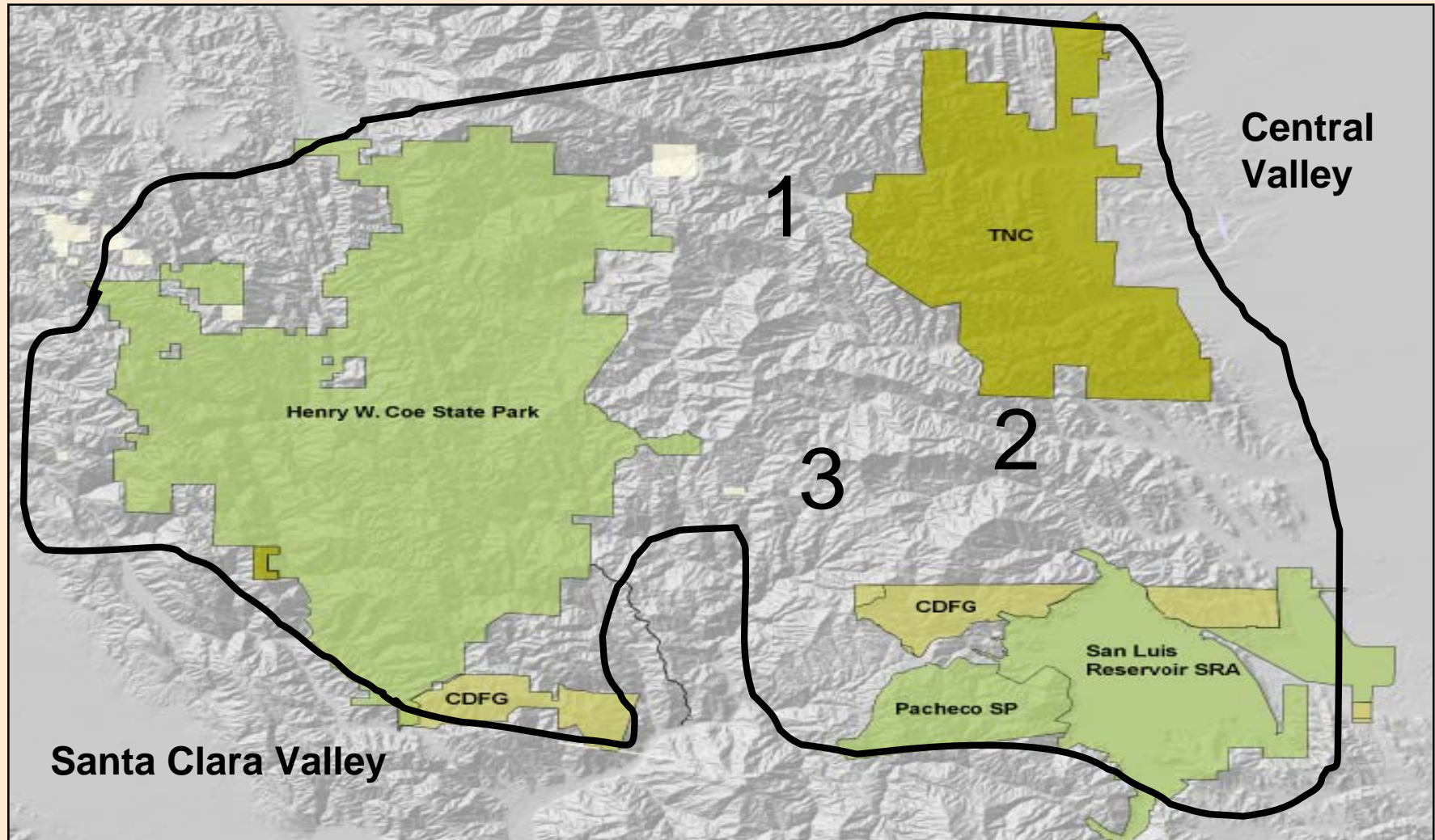
Endemic Movement & Evolutionary Hot Spot



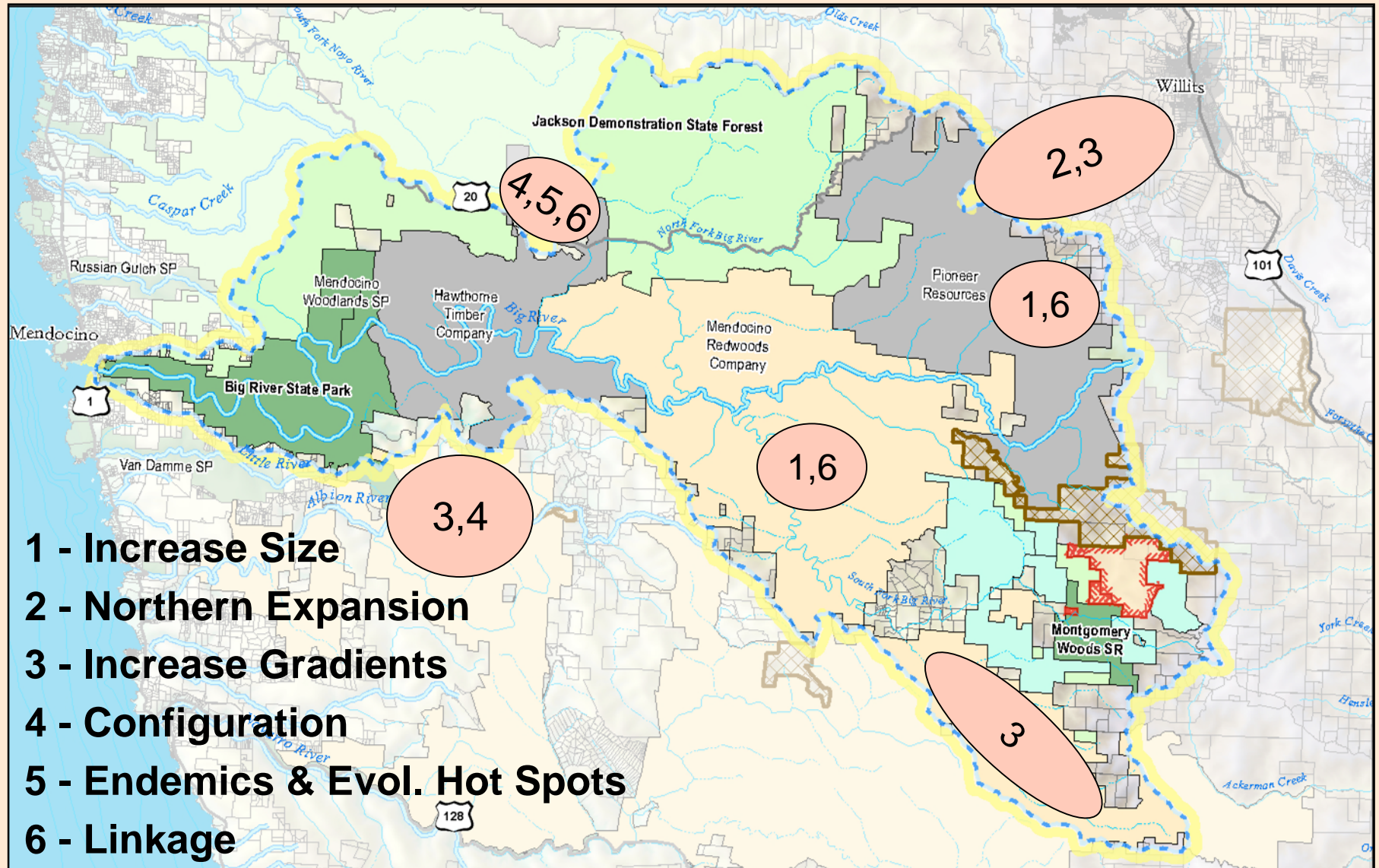
Soil Gradient



Perfecting Reserve: Linking Existing Protected Areas – Mt. Hamilton 300,000 Acres



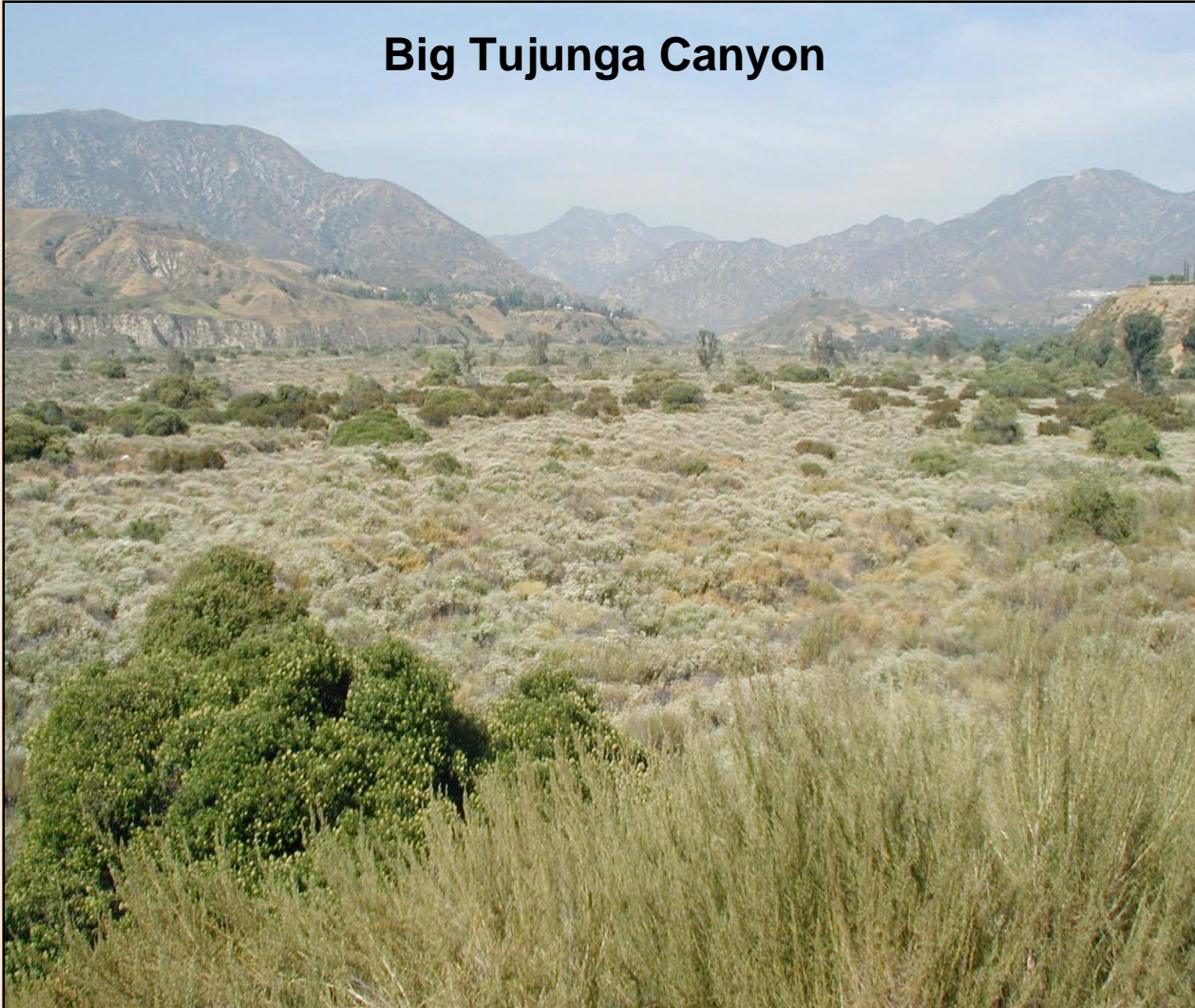
Perfecting 125,000 Acre Big River Reserve



Reserve: Management & Restoration

Reduce Environmental Stressors

Big Tujunga Canyon



Priority Actions:

- invasive weeds
- roads, culverts & sediment
- fire, stand conversion
- feral animals

Priority Areas:

- wildlife movement
- plant movement

Challenge 2: Fire

- Drought-reduce plant water
- Crown fire-habitat replacement
- Losses: Biodiversity, recreation, facilities



Cedar Crown Fire



Natural Open Forest Condition

Fire: Management Actions

- Forest, shrub thinning
- Boundary treatment
- Roadside treatment
- Prescribe burning
- Revegetation, Cuyamaca SP

Partners:

CalFire

USAF

USGS

NPS

Challenge 3: Beaches and Shoreline

State Parks 30 % of California Coast

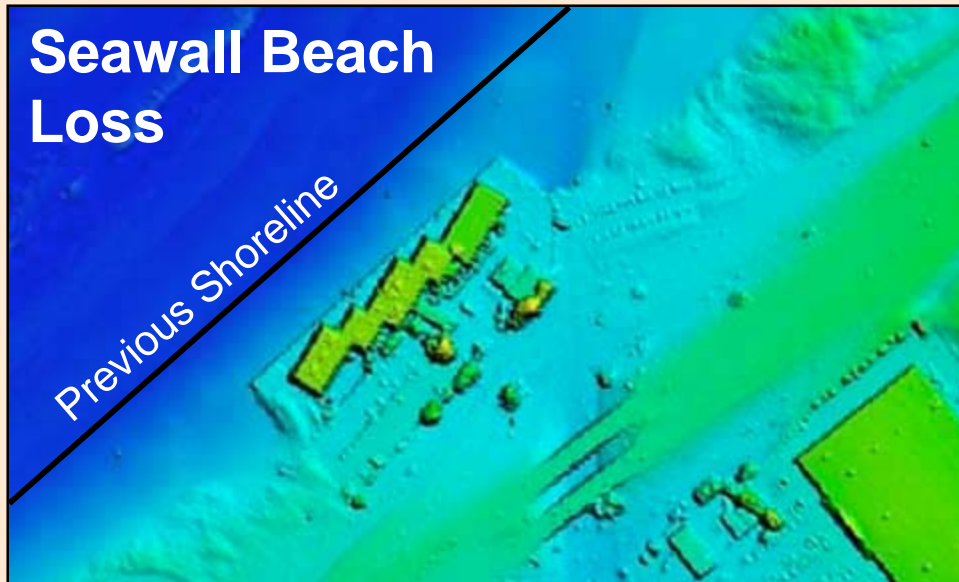
Storm & Wave Intensity



Seawalls Issues



Seawall Beach Loss



Sea Level Rise



Beaches and Shoreline: Planning for Future

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- Seawall Inventory, Assessment
 - Planning Future Investments
 - Letting Go...
 - Major Changes in Outdoor Recreation

Challenge 4: Central Valley Water and Recreation



Water Dependent Recreation :

- Sacramento, San Joaquin, Tuolumne, Stanislaus Rivers
- Reservoirs - 2.2 Million Summer Users
- June and July Allocations

Central Valley Water Seasonal Allocations

Partners:

- DWR
- BOR
- Irrigation Districts



Interpreting Climate Change

- Sign for projects
- Panels in parks
- Campfire program
- Talking points for interpreters
- Digital media, podcast
- Junior Ranger program
- Historic carbon calculator
- Links for teachers
- Online resources

Assessment Tool

- Adaptation Strategies
Risk / Vulnerability



Prairie Creek Redwoods State Park, 2076

